

Abstract of the Invention

An individual circuit control heuristic provides multi-system time broadcast system capability. A multi-band antenna is connected to a receiver integrated circuit having access to a series of filter banks corresponding to the propagation frequencies used by each broadcast transmission area. An MCU (microprocessor clock unit) is controllably connected to the receiver and to a clock display. An optional user input can enable a user's intervention, such as when changing time broadcast areas. Generally scanning for radio controlled clock signal is automatic and without user's intervention. A period of 2 minutes is allotted to synchronize the automatic clock time signal. The MCU will periodically check for the presence of this radio controlled clock signal at an average, but randomized time spacing to avoid any possible collision with a periodically occurring interference signal. A logic flow is used to limit radio frequency receiver usage in accord with pre-programmed precepts.